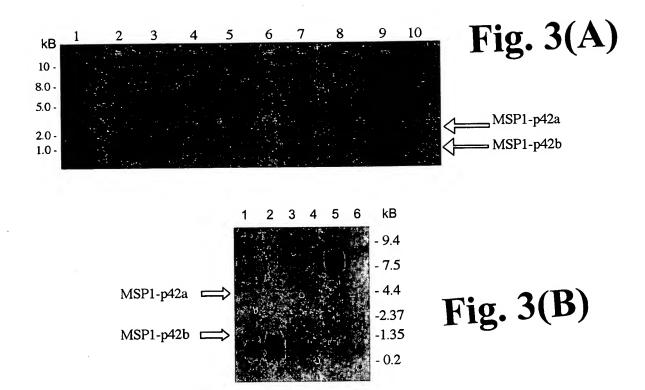
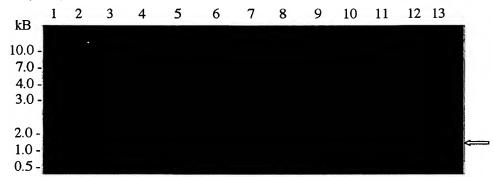


Fig. 2







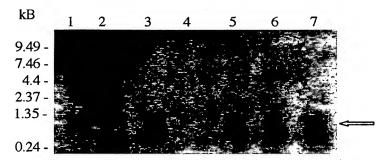
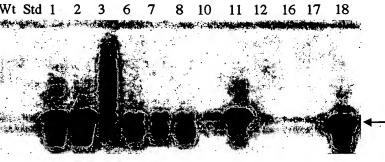
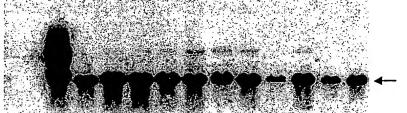


Fig. 5(A)



**Fig. 5(B)** 



## Fig 6(A)

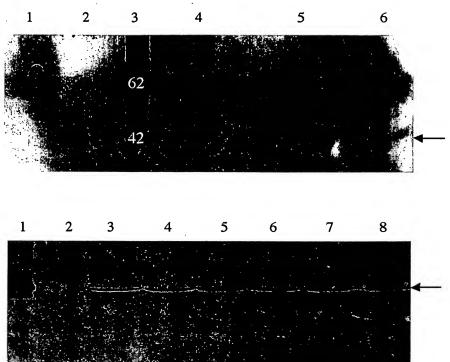


Fig. 6(B)

### Fig. 7(A)

#### MSP1.p42 FUP

- 401 AAAATGATATTAAAT TTGCACAGGA <u>AGGTATAAG</u> TTATTATGAAAAGGTT
- 601 AACATTGAGAC CTTATACAATAAC TTAGTTAATAAAT TGACGATTACTT
- 951 TCCAGAAAAT TCTGGATGTTTCAGAC ATTTAGATGAAAG AGAAGAATGTA

#### MSP1.p42FVO

- 181 AATTTCAAAATG TTTTAGAATCAGATTTA ATTCCATATAAAG ATTTA
- 230 ACATCAAGTAATT ATGTTGTCAAAGATCCA TATAAATTTCTTAATAAA
- 277 GAAAAAAGAGA TAAATTCTTAAGCAGTTA TAATTATATAAGGATTC

Fig. 7(B)

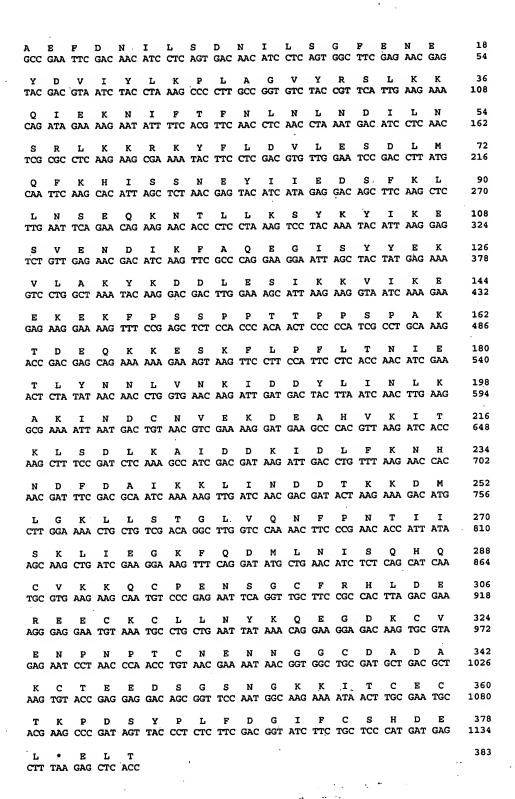


Fig. 8

O G D I T M D N I L S G F E N E 18 R I CGG ATC CAA GGA GAT ATA ACA ATG GAC AAC ATC CTC AGT GGC TTC GAG AAC GAG YDVIYLKPLAGVYR 36 TAC GAC GTA ATC TAC CTA AAG CCC CTT GCC GGT GTC TAC CGT TCA TTG AAG AAA 108 LNLNDIL 54 T E K N I F T F N CAG ATA GAA AAG AAT ATT TTC ACG TTC AAC CTC AAC CTA AAT GAC ATC CTC AAC 162 72 R K Y F L D V L E S D т. K K TCG CGC CTC AAG AAG CGA AAA TAC TTC CTC GAC GTG TTG GAA TCC GAC CTT ATG 216 D F K 90 HISSN R Y T I E S OFK CAA TTC AAG CAC ATT AGC TCT AAC GAG TAC ATC ATA GAG GAC AGC TTC AAG CTC 270 K N T L L K S Y K Y I K 108 L N S E 0 TTG AAT TCA GAA CAG AAG AAC ACC CTC CTA AAG TCC TAC AAA TAC ATT AAG GAG SVENDIKFAQEGISY Y E 126 TCT GTT GAG AAC GAC ATC AAG TTC GCC CAG GAA GGA ATT AGC TAC TAT GAG AAA 378 L E S I K K K Y K D D GTC CTG GCT AAA TAC AAG GAC GAC TTG GAA AGC ATT AAG AAG GTA ATC AAA GAA 432 P s s P P т т Р P S D А 162 GAG AAG GAA AAG TTT CCG AGC TCT CCA CCC ACA ACT CCC CCA TCG CCT GCA AAG 486 EQKKESKF P F L Т N т 180 T D L ACC GAC GAG CAG AAA AAA GAA AGT AAG TTC CTT CCA TTC CTC ACC AAC ATC GAA 540 198 T L N N LVNKIDDYLIN ACT CTA TAT AAC AAC CTG GTG AAC AAG ATT GAT GAC TAC TTA ATC AAC TTG AAG 216 KINDCNVEKDEAHVKI GCG AAA ATT AAT GAC TGT AAC GTC GAA AAG GAT GAA GCC CAC GTT AAG ATC ACC 648 K A I D D K I D 234 D L AAG CTT TCC GAT CTC AAA GCC ATC GAC GAT AAG ATT GAC CTG TTT AAG AAC CAC I K K L I N D D т ĸ K D М 252 N D D Α AAC GAT TTC GAC GCA ATC AAA AAG TTG ATC AAC GAC GAT ACT AAG AAA GAC ATG 756 Q N 270 S Т G ı. v F P N T G K L L CTT GGA AAA CTG CTG TCG ACA GGC TTG GTC CAA AAC TTC CCG AAC ACC ATT ATA 810 I E G K F Q D M L N I S Q H 288 s K L AGC AAG CTG ATC GAA GGA AAG TTT CAG GAT ATG CTG AAC ATC TCT CAG CAT CAA CVKKQCPENSGCFR 306 н TGC GTG AAG AAG CAA TGT CCC GAG AAT TCA GGT TGC TTC CGC CAC TTA GAC GAA 918 CKCLLNYK E 324 AGG GAG GAA TGT AAA TGC CTG CTG AAT TAT AAA CAG GAA GGA GAC AAG TGC GTA 972 C 342 РТС N G G A D E N P N N E N D GAG AAT CCT AAC CCA ACC TGT AAC GAA AAT AAC GGT GGC TGC GAT GCT GAC GCT 1026 D s G s N. G к к I т 360 C E Т Е AAG TGT ACC GAG GAG GAC AGC GGT TCC AAT GGC AAG AAA ATA ACT TGC GAA TGC 1080 T K P D S Y P L F D G I F C S H D E 378 ACG AAG CCC GAT AGT TAC CCT CTC TTC GAC GGT ATC TTC TGC TCC CAT GAT GAG 1134 383 E L CTT TAA GAG CTC ACC 1149

### Fig 9

# Fig 10

DNA AND AMINO ACID SEQUENCE OF BVp42-M

attggatccactaaa

13	ato	ita	atc	ttg	gaa	gtg.	tct.	ttt	att	ctg	ggc	LyL	عالمان	<i>y</i> g cy	acc
	3.6	TAT	C	TAT	K	C	Τ.	T.	$\mathbf{F}$ .	W	Α	٧	Tr	V .	T
58	acc	act	-cti	ttac	caca	agca	aσco	gate	ctct	:qt1	tact	cato	ggac	caac	atc
	7\	Tr.	Τ.	C	ጥ	Α	Α	Ι	S	V	$\mathbf{T}$	ΙvΙ	ע	1/4	ㅗ
103	ctc	aqt	-ממ	ctte	cdad	raac	caac	gta	cgad	cgt	aato	ctac	ccta	aaag	CCC
	τ.	Q	G	F	F.	N	$\mathbf{E}$	Y	D	V	Ţ	Y	L	V	P
148	ctt	aco	aaa	tate	cta	cca,	ttc	att	gaa	gaa	aca	gata	agaa	aaag	aat
	Т.	Δ	G	V	Υ	R	S	L	K	K	Q	Ţ	Ľ	ĸ	1/4
193	att	++	cac	att	caa	cct	caa	cct	aaa'	tqa	cat	cct	caac	ctcg	lcgc
100	Т	F	ጥ	F	N	$\mathbf{L}$	N	L	N	D	1	بلا	N	5	K
238	cto	าลล	naa	aca	aaa	ata	ctt	cct	cga	cgt	gtt	gga	atc	cgac	ctt
	Τ.	K	K	R	ĸ	Y	F	${f L}$	D	V	Ъ	E	S	ט	L
283	ato	rca.	att	taa	αca	cat	tag	ctc	taa	cga	gta	cat	cata	agaç	ggac
203	M	$\circ$	F	K	Н	I	S	S	N	$\mathbf{E}$	Y	T	T	Ľ	ע
328	900	<b>~++</b>	caa	act	ctt	σaa	ttc	aga	aca	gaa	ıgaa	caç	CCT	CCT	aaag
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373	to	rta	caa	ata	cat	taa	gga	gtc	tgt	tga	igaa	cga	cat	caac	gttc
373	C	v	K	Y	Т	K	$\mathbf{E}$	S	V	上	N	D	7	Ĺ	r
418	ac	dea	aaa	agg	raat	tao	rcta	cta	tga	gaa	agt	cct	ggc	taaa	atac.
120	7\	$\circ$	F.	G	Т	S	Y	Y	Ε	K	V	ىل	А	r	1
463	aa	ααа	caa	actt	aαa	aao	cat	taa	agaa	ıggt	aat	caa	.aga	aga	gaag
	K	D	D	Τ.	E	S	I	K	·K	V	1	K	E	Ľ	V
508	αa	aaa	att	tcc	caac	rcto	ctcc	caco	ccac	caac	ctcc	ccc	atc	:gcc	tgca
	ਸ਼ਾ	K	F	. P	S	S	P	P	Т	Τ.	Ъ	P	S	P	A
553	aa	σας	caa	acqa	agca	aσaa	aaaa	aaqa	aaac	gtaa	agtt	cct	tcc	catt	cctc
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598	ac	caa	acat	toga	aaac	ctct	tata	ataa	acaa	acct	tggt	gaa	caa	igat	tgat
	т	N	Т	F.	Ψ	T,	Y	N	N	L	V	N	K	T	ע
643	qa	cta	acti	taat	tcaa	acti	tgaa	agg	cgaa	aaa	ttaa	atga	acto	ıtaa	.cgtc
	D	Y	Τ.	Т	N	$\mathbf{L}$	K	A	K	1	N	D		1/1	V
688	ga	aaa	agg	atga	aad	ccca	acat	tta	agat	tca	ccaa	agct	ctto	ccga	tctc
	E	K	D	F.	Α	Н	V	K	I	T	K	ىد	5	ע	. بد
733	aa	ago	cca	tcg	acg	ata	aga	ttg	acc'	tgt	tta	agaa	acca	acaa	cgat
	ĸ	Α	I	D	D	K	I	ט	L	F.	K	1/	n	1//	
778	tt	ca	aca	caa	t.ca.	aaa	agt	taa	tca	acα	acq	ata	ctaa	agaa	agac
	F	D	Α	I	K	K	L	I	N	D	ע	T.	K	v	ט
823	3 at	ac	ttg	gaa	aac	tgc	tgt	cga	cag	gct	tgg	tcc	aaa	actt	cccg
	Μ	L	G	K	L	L	S	$\mathbf{T}$	G	$\mathbf{L}$	, V	Q	N	r	P
868	a a	aca	cca	tta	taa	gca	agc	tga	tcg	aag	gaa	agt	ttc	agga	atatg

K F Q D M KLIE G I I S NT 913 ctgaacatctctcagcatcaatgcgtgaagaagcaatgtcccgag LNISQHQCVKKQCPE 958 aattcaggttgcttccgccacttagacgaaagggaggaatgtaaa NSGCFRHLDERECK 1003 tgcctgctgaattataaacaggaaggagacaagtgcgtagagaat LLNYKQEGDKCVEN 1048 cctaacccaacctgtaacgaaaataacggtggctgcgatgctgac P T C N E N N G G C D A D N 1093 gctaagtgtaccgaggaggacagcggttccaatggcaagaaaata A K C T E E D S G S N G K K I 1138 acttgcgaatgcacgaagcccgatagttaccctctcttcgacggt T C E C T K P D S Y P L F D G 1183 atcttctgctcc F C S

ccacctcatcatcatcatcattaataaggtaccta
P P H H H H H H \* \*